Please cancel claims 4, 12, and 19-22.

Please amend claims 1, 5, 11, 14, 15, 17, and 18 to read as follows:

1. (Amended) An allelic ladder mixture comprising one or more of the following allelic ladders :-

      i)   an allelic ladder for locus HUMVWFA31/A comprising one or more alleles consisting of sequences :-

            TCTA TCTG TCTA $(TCTG)_4$ $(TCTA)_3$ - SEQ ID NO 1; or

            TCTA $(TCTG)_4$ $(TCTA)_7$ - SEQ ID NO 2; or

            $(TCTA)_2$ $(TCTG)_4$ $(TCTA)_3$ TCCA $(TCTA)_3$ - SEQ ID NO 3;

      ii)   an allelic ladder for locus HUMTHO1 comprising an allele consisting of sequence :-

            $(TCAT)_4$ CAT $(TCAT)_7$ TCGT TCAT - SEQ ID NO 4;

      iii)   an allelic ladder for locus D8S1179 comprising an allele consisting of sequence:-

            $(TCTA)_2$ $TCTG(TCTA)_{16}$ - SEQ ID NO 6;

      iv)   an allelic ladder for locus HUMFIBRA/FGA comprising one or more alleles consisting of sequences :-

            $(TTTC)_3$ TTTT TTCT $(CTTT)_5$ T $(CTTT)_3$ CTCC $(TTCC)_2$ - SEQ ID NO 7; or

            $(TTTC)_3$ TTTT TTCT $(CTTT)_{13}$ CCTT $(CTTT)_5$ CTCC $(TTCC)_2$ - SEQ ID NO 8; or

2

(TTTC)$_3$ TTTT TTCT (CTTT)$_{16}$ CCTT (CTTT)$_5$ CTCC (TTCC)$_2$ - SEQ ID NO 9; or

(TTTC)$_4$ TTTT TT (CTTT)$_{15}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 10; or

(TTTC)$_4$ TTTT TT (CTTT)$_{16}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 11; or

(TTTC)$_4$ TTTT TT (CTTT)$_{17}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 12; or

(TTTC)$_4$ TTTT TT (CTTT)$_8$ (CTGT)$_4$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 13; or

(TTTC)$_4$ TTTT TT (CTTT)$_8$ (CTGT)$_5$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 14; or

(TTTC)$_4$ TTTT TT (CTTT)$_{11}$ (CTGT)$_3$ (CTTT)$_{14}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 15; or

(TTTC)$_4$ TTTT TT (CTTT)$_{10}$ (CTGT)$_5$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 16; or

(TTTC)$_4$ TTTT TT (CTTT)$_{12}$ (CTGT)$_5$ (CTTT)$_{14}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 17; or

(TTTC)$_4$ TTTT TT (CTTT)$_{14}$ (CTGT)$_3$ (CTTT)$_{14}$ (CTTC)$_4$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 18;

v)   an allelic ladder for locus D21S11 comprising one or more alleles consisting of sequences :-

3

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA$(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_6$ TCGTCT - SEQ ID NO 19; or

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_9$ TCGTCT - SEQ ID NO 20 or

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{10}$ TCGTCT - SEQ ID NO 21; or

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_8$ TCGTCT - SEQ ID NO 22; or

$(TCTA)_5$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_9$ TCGTCT - SEQ ID NO 23; or

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{10}$ TCGTCT - SEQ ID NO 24; or

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{11}$ TCGTCT - SEQ ID NO 25; or

$(TCTA)_6$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{11}$ TCGTCT - SEQ ID NO 26; or

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{12}$ TCGTCT - SEQ ID NO 27; or

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{11}$ TA TCTA TCGTCT - SEQ ID NO 28; or

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{12}$ TA TCTA TCGTCT - SEQ ID NO 29; or

4

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{13}$ TA TCTA TCGTCT - SEQ ID NO 30; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{14}$ TATCTA TCGTCT - SEQ ID NO 31; or

(TCTA)$_{10}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{12}$ TCGTCT - SEQ ID NO 32; or

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{12}$ TCGTCT - SEQ ID NO 33; or

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{13}$ TCGTCT - SEQ ID NO 34; or

(TCTA)$_{13}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{12}$ TCGTCT - SEQ ID NO 35;

vi)   an allelic ladder for locus D18S51 comprising an allele consisting of

sequence:-

(AGAA)$_8$ - SEQ ID NO 36.

5. (Amended) An allelic ladder mixture according to claim 1 in which the allelic ladders in

the mixture each include at least 7 alleles.

5

11. (Amended) An allelic ladder mixture comprising an allelic ladder for one or more of the following loci, with lowest molecular weight allele and uppermost molecular weight allele designation as follows :-

	Locus	Low MW allele Designation	High MW allele Designation
a)	HUMVWFA31/A	10	21
b)	HUMTH01	4	13.3
c)	D8S1179	7	19
d)	HUMFIBRA/FGA	16.1	50.2
e)	D21S11	53	81
f)	D18S51	8	27

14. (Amended) A method of analysing one or more samples comprising :-

a)   obtaining genomic DNA from the sample;

b)   amplifying the DNA;

c)   obtaining an indication of one or more of the constituent parts of the sample;

and comparing the indications with an allelic ladder mixture comprising one or more of the following allelic ladders :-

i)   an allelic ladder for locus HUMVWFA31/A comprising one or more alleles consisting of sequences :-

TCTA TCTG TCTA (TCTG)$_4$ (TCTA)$_3$ - SEQ ID NO 1; or

TCTA (TCTG)$_4$ (TCTA)$_7$ - SEQ ID NO 2; or

(TCTA)$_2$ (TCTG)$_4$ (TCTA)$_3$ TCCA (TCTA)$_3$ - SEQ ID NO 3

6

ii)   an allelic ladder for locus HUMTHO1 comprising an allele consisting

of sequence :-

(TCAT)$_4$ CAT (TCAT)$_7$ TCGT TCAT - SEQ ID NO 4;

iii)   an allelic ladder for locus D8S1179 comprising an allele consisting of

sequence:-

(TCTA)$_2$ TCTG (TCTA)$_{16}$ - SEQ ID NO 6;

iv)   an allelic ladder for locus HUMFIBRA/FGA comprising one or more

alleles consisting of the sequences :-

(TTTC)$_3$ TTTT TTCT (CTTT)$_5$ T (CTTT)$_3$ CTCC (TTCC)$_2$ - SEQ ID

NO 7; or

(TTTC)$_3$ TTTT TTCT (CTTT)$_{13}$ CCTT (CTTT)$_5$ CTCC (TTCC)$_2$ - SEQ

ID NO 8; or

(TTTC)$_3$ TTTT TTCT (CTTT)$_{16}$ CCTT (CTTT)$_5$ CTCC (TTCC)$_2$ - SEQ

ID NO 9; or

(TTTC)$_4$ TTTT TT (CTTT)$_{15}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ

ID NO 10; or

(TTTC)$_4$ TTTT TT (CTTT)$_{16}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ

ID NO 11; or

(TTTC)$_4$ TTTT TT (CTTT)$_{17}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ

ID NO 12; or

(TTTC)$_4$ TTTT TT (CTTT)$_8$ (CTGT)$_4$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 13; or

7

(TTTC)$_4$ TTTT TT (CTTT)$_8$ (CTGT)$_5$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 14; or

(TTTC)$_4$ TTTT TT (CTTT)$_{11}$ (CTGT)$_3$ (CTTT)$_{14}$ (CTTC)$_3$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 15; or

(TTTC)$_4$ TTTT TT (CTTT)$_{10}$ (CTGT)$_5$ (CTTT)$_{13}$ (CTTC)$_4$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 16; or

(TTTC)$_4$ TTTT TT (CTTT)$_{12}$ (CTGT)$_5$ (CTTT)$_{14}$ (CTTC)$_3$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 17; or

(TTTC)$_4$ TTTT TT (CTTT)$_{14}$ (CTGT)$_3$ (CTTT)$_{14}$ (CTTC)$_4$ (CTTT)$_3$

CTCC (TTCC)$_4$ - SEQ ID NO 18;

v)   an allelic ladder for locus D21S11 comprising one or more alleles

consisting of sequences :-

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA(TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_6$ TCGTCT - SEQ ID NO 19; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_9$

TCGTCT - SEQ ID NO 20; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{10}$

TCGTCT - SEQ ID NO 21; or

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_8$ TCGTCT - SEQ ID NO 22; or

(TCTA)$_5$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_9$ TCGTCT - SEQ ID NO 23; or

8

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{10}$ TCGTCT - SEQ ID NO 24; or

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TCGTCT - SEQ ID NO 25; or

(TCTA)$_6$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TCGTCT - SEQ ID NO 26; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 27; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TA TCTA TCGTCT - SEQ ID NO 28; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TA TCTA TCGTCT - SEQ ID NO 29; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{13}$ TA TCTA TCGTCT - SEQ ID NO 30; or

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{14}$ TATCTA TCGTCT - SEQ ID NO 31; or

(TCTA)$_{10}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 32; or

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 33; or

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{13}$ TCGTCT - SEQ ID NO 34; or

(TCTA)$_{13}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA

(TCTA)$_{12}$ TCGTCT - SEQ ID NO 35;

vi)   an allelic ladder for locus D18S51 comprising an allele consisting of

sequence :-

(AGAA)$_8$ - SEQ ID NO 36.

15. (Amended) A method according to claim 14 in which the DNA sample is one or more

of a sample taken from the scene of a crime, a sample associated with the scene of a crime, a sample

obtained from a suspect, a sample obtained from a human under consideration or a reference sample.

17. (Amended) One or more isolated alleles comprising or consisting of sequences

TCTA TCTG TCTA (TCTG)$_4$ (TCTA)$_3$ - SEQ ID NO 1;

TCTA (TCTG)$_4$ (TCTA)$_7$ - SEQ ID NO 2;

(TCTA)$_2$ (TCTG)$_4$ (TCTA)$_3$ TCCA (TCTA)$_3$ - SEQ ID NO 3;

(TCAT)$_4$ CAT (TCAT)$_7$ TCGT TCAT - SEQ ID NO 4;

(TCTA)$_2$ TCTG (TCTA)$_{16}$ - SEQ ID NO 6;

(TTTC)$_3$ TTTT TTCT (CTTT)$_5$ T (CTTT)$_3$ CTCC (TTCC)$_2$ - SEQ ID NO 7;

(TTTC)$_3$ TTTT TTCT (CTTT)$_{13}$ CCTT (CTTT)$_5$ CTCC (TTCC)$_2$ - SEQ ID NO 8;

(TTTC)$_3$ TTTT TTCT (CTTT)$_{16}$ CCTT (CTTT)$_5$ CTCC (TTCC)$_2$ - SEQ ID NO 9;

(TTTC)$_4$ TTTT TT (CTTT)$_{15}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 10;

(TTTC)$_4$ TTTT TT (CTTT)$_{16}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 11;

(TTTC)$_4$ TTTT TT (CTTT)$_{17}$ (CTTC)$_3$ (CTTT)$_3$ CTCC (TTCC)$_4$ - SEQ ID NO 12;

$(TTTC)_4$ TTTT TT $(CTTT)_8$ $(CTGT)_4$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 13;

$(TTTC)_4$ TTTT TT $(CTTT)_8$ $(CTGT)_5$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 14;

$(TTTC)_4$ TTTT TT $(CTTT)_{11}$ $(CTGT)_3$ $(CTTT)_{14}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 15;

$(TTTC)_4$ TTTT TT $(CTTT)_{10}$ $(CTGT)_5$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 16;

$(TTTC)_4$ TTTT TT $(CTTT)_{12}$ $(CTGT)_5$ $(CTTT)_{14}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 17;

$(TTTC)_4$ TTTT TT $(CTTT)_{14}$ $(CTGT)_3$ $(CTTT)_{14}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$ - SEQ ID NO 18;

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA$(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_6$ TCGTCT - SEQ ID NO 19;

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_9$ TCGTCT - SEQ ID NO 20;

$(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{10}$ TCGTCT - SEQ ID NO 21;

$(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_8$ TCGTCT - SEQ ID NO 22;

$(TCTA)_5$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_9$ TCGTCT - SEQ ID NO 23;

11

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{10}$ TCGTCT - SEQ ID NO 24;

(TCTA)$_4$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TCGTCT - SEQ ID NO 25;

(TCTA)$_6$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TCGTCT - SEQ ID NO 26;

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 27;

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{11}$ TA TCTA TCGTCT - SEQ ID NO 28;

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TA TCTA TCGTCT - SEQ ID NO 29;

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{13}$ TA TCTA TCGTCT - SEQ ID NO 30;

(TCTA)$_5$ (TCTG)$_6$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{14}$ TATCTA TCGTCT - SEQ ID NO 31;

(TCTA)$_{10}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 32;

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$ TCGTCT - SEQ ID NO 33;

(TCTA)$_{11}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{13}$ TCGTCT - SEQ ID NO 34;

12

(TCTA)$_{13}$ (TCTG)$_5$ (TCTA)$_3$ TA (TCTA)$_3$ TCA (TCTA)$_2$ TCCATA (TCTA)$_{12}$

TCGTCT - SEQ ID NO 35; or

(AGAA)$_8$ - SEQ ID NO 36.

18. (Amended) One or more alleles according to claim 17 in which the alleles are provided

purified   from   alleles   other   than   those   of   HUMVWFA31/A,   HUMTH01,   D8S1179,

HUMFIBRA/FGA, D21511, D18551 or AMG loci.